

CLAIMS

1 1. (Original) A communications system for servicing customers connected to access
2 points and using an established backhaul transport to an office comprising:
3 one or more environmentally hardened remote digital subscriber line access multiplexers,
4 connecting means for connecting said access multiplexers to said access points,
5 an alternate backhaul transport for connecting said access multiplexers to provide
6 broadband services to said customers.

1 2. (Original) The communications system of Claim 1 wherein said access multiplexers
2 are all-weather hardened for outdoor installation.

1 3. (Original) The communications system of Claim 2 wherein said access multiplexers
2 are located in utility-pole mountable enclosures.

1 4. (Original) The communications system of Claim 1 wherein said access multiplexers
2 include a processor unit, an ATM assembler and disassembler unit and an ATM switch fabric.

1 5. (Original) The communications system of Claim 1 wherein each of said access
2 multiplexers includes a master unit and one or more trunk interface units.

1 6. (Original) The communications system of Claim 5 wherein said master unit is in an
2 all-weather hardened enclosure and said trunk interface units are each in separate all-weather
3 hardened trunk interface enclosures.

1 7. (Original) The communications system of Claim 1 wherein said alternate backhaul
2 transport includes a network of ATM switches.

1 8. (Original) The communications system of Claim 1 wherein said alternate backhaul
2 transport includes,
3 a plurality of ATM switches connected by a plurality of first transports to form a first
4 network,
5 a plurality of second transports connecting said access multiplexers to form a second
6 network,
7 a plurality of third transports connecting said second network to said first network.

1 9. (Original) The communications system of Claim 8 wherein said first transports, said
2 second transports and said third transports are wireless.

1 10. (Original) The communications system of Claim 1 wherein said alternate backhaul
2 transport includes a network of ATM switches supervised by an element manager.

1 11. (Original) The communications system of Claim 1 wherein said alternate backhaul
2 transport includes ATM switches connected by transports in a mesh network.

1 12. (Original) The communications system of Claim 11 wherein said transports are
2 wireless.

1 13. (Original) The communications system of Claim 1 wherein said office is an ILEC
2 central office.

1 14. (Original) The communications system of Claim 1 wherein said alternate backhaul
2 transport connects to a CLEC office.

1 15. (Original) The communications system of Claim 1 wherein said alternate backhaul
2 transport connects to other networks.

1 16. (Original) The communications system of Claim 1 wherein said office is an ILEC
2 central office and said alternate backhaul transport connects to a CLEC office.

1 17. (Original) The communications system of Claim 1 wherein said office is an ILEC
2 central office and said alternate backhaul transport connects to a CLEC office and to said ILEC
3 central office.

1 18. (Original) The communications system of Claim 1 wherein said office is an ILEC
2 central office and said alternate backhaul transport connects to a CLEC office, said ILEC central
3 office and to other networks.

1 19. (Original) The communications system of Claim 18 wherein said other networks
2 include the Internet.

1 20. (Original) A communications system for servicing customers connected to access
2 points and using an established backhaul transport to an office comprising:

3 one or more all-weather environmentally hardened remote digital subscriber line access
4 multiplexers in utility-pole mountable enclosures,

5 connecting means for connecting said access multiplexers to said access points,

6 an alternate backhaul transport for connecting said access multiplexers to provide

7 broadband services to said customers wherein said alternate backhaul transport
8 includes,

9 a plurality of ATM switches connected by a plurality of first wireless
10 transports to form a first mesh network having redundant
11 connections,

12 a plurality of second wireless transports connecting said access
13 multiplexers to form a second mesh network having redundant
14 connections,

15 a plurality of third wireless transports connecting said second network to
16 said first network.

21. (Original) The communications system of Claim 20 wherein said office is an ILEC
central office and said alternate backhaul transport connects to a CLEC office, said ILEC central
office and to other networks.

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